

Klimenko, V.M.

Kinematics of the deformation zone during vibratory
rolling

IZV. VUZ CHERN. MET., 1972, No. 12, pp. 115-120

BISI 11326

June 73

Krishtal, M.A. et al.

Diffusion in Steel when its Surface is Saturated
with the Alloying Element.
IZV. VUZ CHERN. MET., 1972, No. 12, pp. 126-9.
BISI 11327

Mark, G.L.

The manner in which transitional metals interact with non-metallic substances.

IZV. VUZ CHERN. MET., 1972, No.12, pp.142-6.

FBISI 11328

Malikov, E.L.

Determination of the optimum numbers of melts in
converter shop hot metal batches
IZV. VUZ CHERN. MET., 1972, No. 12, pp. 165-9
BISI 11329

june 73

Surguchev, G. D.

Quantitative Identification and Investigation of
the Dynamics of Decarburization by Means of a
Digital Computer.

IZV. VUZ CHERN MET., 1973, No. 1, pp. 24-27

BISI 11429

ZNAZEV, V. L.
//IZV. VUZ. CHIM. IET.//
--/1973, V----, N0001,
Correlation Analysis of the Quality of Open-Hearth
Steel,
pp 29-33, REST 1142966

Sinitsyn, V.G. et al

Theoretical Investigation of the Process of
Asymmetric Rolling.

Izv. VUZ. CHERN. MET., 1973, No.1, pp.69-72.

BISI 11426

Glukhov, V.V. & Semeka A.V.

Mathematical Formalization and Algorithm for the
Calculation of Roll Stocks of Section Rolling Plant

IZV VUZ CHERN. MET. 1973, (1) pp 78-81

BISI 11425

July 1973

Polukhin, P.I. et al

Investigation of the Deformed State of a
Stretched Specimen by Means of the Moire Me-
thod.

IZV. VUZ. CHERN. MET., 1973, No.1, pp.108-111.
BISI 11424

Kalashnikov, Yu. V.

Investigation of the Round-Square System Metal
Rolling Process in 4-High Passes

IZV. VUZ CHERN. MET., 1973, No. 1, pp 116-118
BISI 11423

Zalesskii, V.I.

Glass Coatings Used in the Hot Pressing of Kh
18N10T Steel.

IZV. VUZ. CHERN. MET., 1973, No.1, pp.122-125.
BISI 11422

Gol'dfarb, E. M.

Optimisation of the Heating of Fine Bodies
During Heat Exchange by Radiation
IZV. VUZ CHERN. MET., 1973, No. 1, pp 159-162
BISI 11421

Skrovtssov, A.A. & Vershinin, P.I.

Solidification and Cooling of Flat Castings in
Chill Moulds with Forced Cooling

IZV VUZ CHERN. MET. 1973, (1) pp 169-172

BISI 11420

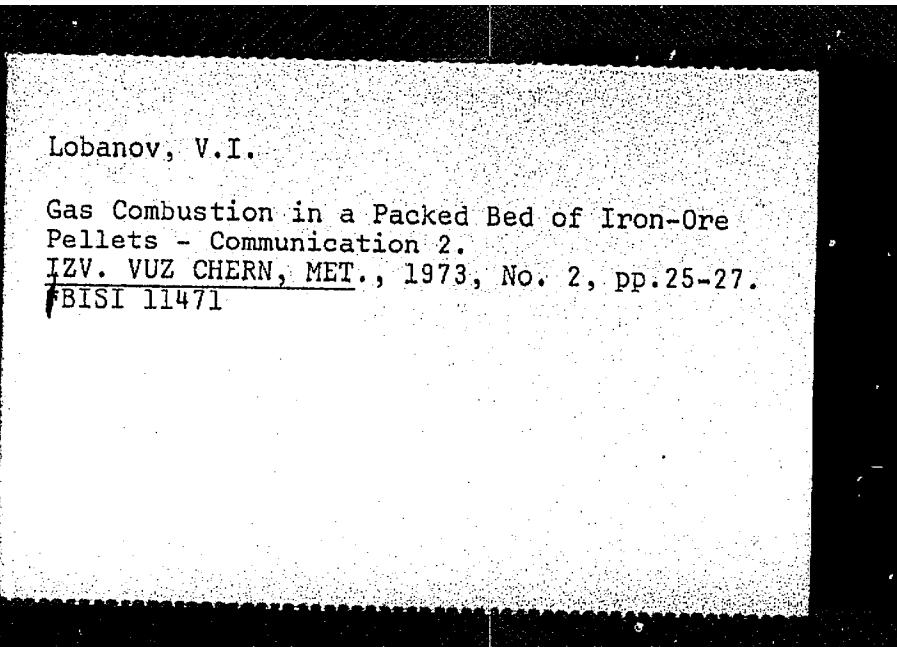
July 1973

Tseshnatii, G.I.

Linear Programming Used for the Volume-Calendar
Planning of the Running of a Sheet Mill Rep. 1.
IZV. VUZ. CHERN. MET., 1973, No.1, pp.183-187.
BISI 11419

Zhilo, N.L. et al

Slag Conditions in Blast-Furnace Operation on
Pellets from the Sokolovka-Sarbai Mining-Bene-
ficiation Combine (SSGOK)
IZV. VUZ. CHERN. MET., 1973, No.2, pp.19-24.
BISI 11470



Levin, S.L. et al

Removal of the Products of Deoxidation when
Melting G1 3L High Manganese Steel.
IZV. VUZ. CHERN. MET., 1973, No. 2, pp.49-50.
BISI 11472

Kamardin, V.A. et al

Thermodynamics of the Reduction of Aluminium in
the Refining of Steel with Basic Aluminā-Con-
taining Slags.

IZV. VUZ. CHERN. MET., 1973, No.2, pp.63-67.

BISI 11473

Pozdeev, A.A. et al

Investigation of the Temperature Field of an
Ingot During its Transfer to the Mill.

IZV. VUZ CHERN. MET., 1973, No.2, pp.82-85.

BISI 11474

Murav'ev, E.A et al

Approximate Experimental and Analytical Deter-
mination of the Residual Stresses in Completely
Quenched Rails.

IZV. VUZ CHERN. MET., 1973, No.2, pp.103-108.

BISI 11476

Bunin, K.P. et al

Formation of Platelet-Rod Type Carbide-Austenite Colonies During the Saturation of an Fe-W-Cr-V-Mo Alloy with Carbon.

IZV. VUZ CHERN. MET., 1973, No.2, pp.123-126.

BISI 11477

Repina, L.D.

Selection of Conditions for the Surface Strengthening of Case-Hardened Steels.
IZV. VUZ CHERN. MET., 1973, No.2, 127-129.

*BISI 11478

Fel'dman, B. A.

Mechanism of the Formation of Thermal Cracks in High Chromium Iron.

ISV. VUZ. CHERN. MET., 1973, No. 2, pp. 134-138
BISI 11479

Teplititskii, E. B.

Thermodynamics of Deoxidizing Steel with
Zirconium.

IZV. VUZ CHERN MET., 1973, No. 3, pp 5-7
BISI 11519

Rudakov, G.A.

An Investigation of the Mechanism of the Oxidation of Carbon in Large Open Hearth Furnace Baths.

IZV. VUZ CHERN. MET., 1973, No.3, pp.37-40.

FBISI 11518

Klyacharev, V.E.

The Behaviour of Gases During the Crystallization of Kh18N9 Steel Ingot Containing Titanium.

IZV. VUZ CHERN. MET., 1973, No.3, pp.43-46.
BISI 11521

Zhadan, V. T.

Investigation of the Deformation Heat in 50KhGA Steel
IZV. VUZ CHERN. MET., 1973, No. 3, pp. 66-69
BISI 11522

Zhadan, V.T. et al

Investigation of the Deformation Heat in 50KhGA
Steel.

IZV. VUZ CHERN. MET., 1973, No.3, pp.96-98.
*BISI 11522

Gorelik, V. S.

Investigation of the Accuracy of Tempac-Steel-Tompac
Bimetallic Strip Rolling

IZV. VUZ CHERN. MET., 1973, No. 3, pp. 97-101
BISI 11523

Bernshtein, M.L.

Investigation of Certain Physico-Mechanical
Properties and the Phase Composition of Cast
Iron Strengthened by Electro-Mechanical Treatment
IZV. VUZ CHERN. MET., 1973, No. 3, pp.138-142.
BISI 11520

Krechmer, V.G.

Effect of the Austenitizing on the Hardenability High-Strength 40KhGSTF Grade Steel.
IZV. VUZ. CHERN. MET., 1973, No.3, pp.155-157.
BISI 11524

Kaganov, V. Yu.

Compositions of Pulverised Metallic Samples
Automatically Controlled by the Thermal e.m.f. Method.
IZV. VUZ. CHERN. MET., 1973, No. 3, pp. 174-176
BLT 11525

Yur'ev, B.P. et al

Calculating Heat Exchange in Bed of Fluxed
Pellets During Firing and the Firing-Zone Pa-
rameters.

IZV. VUZ CHERN MET., 1973, No.4, pp.29-32.
BISI 11628

Dubrovskii, S.A. et al

The Interconnection Between the Ore and Quise
scent Boil Periods Investigated by Component
and Factor Analyses.

IZV. VUZ CHERN MET., 1973, No.4, pp.51-56.

BISI 11623

Sviridenko, S. F.

The Kinetics of the Oxidation of Phosphorus in a
Molten Steel Bath During Reaction With the Slag
IZV. VUZ CHERN. MET., 1973, no. 4, pp 62-64
BISTI 11621

~~██████████~~
Slavnov, E.V.

Simulation of the Discharge Phenomenon in Wire
Drawing.
IZV. VUZ. CHERN. MET., 1973, No.4, pp.85-88.
BISI 11622

Chernenko, A.G. et al

Lateral Boundaries of the Instantaneous Deformation Zone when Col-Rolling Tubes.
IZV. VUZ CHERN. MET., 1973, No.4, pp.89-91.
BISI 11620

Moskvin, V.M.

Transition Processes and Optimum Acceleration
Deceleration Control on a Continuous Cold Rol-
ling Mill.

IZV. VUZ CHERN. MET., 1973, No.4, pp.96-101.
BISI 11619

Yalovoi, N. I. et al

Temperature Changes in Semi-Finished Rolled
Products During Rolling in a 1700 Mill.
IZV. VUZ. CHERN. MET., 1973, No.4, pp.109-112
BISI 11618

Nikolayev, V.A. et al

Apparatus and Procedure of Determination of
Power and Force Parameters During Rolling on
a Three-Stand Test Mill.

IZV. VUZ CHERN. MET., 1973, No.4, pp.123-126.
BISI 11617

Gavrilin, I.V.

Structural Relationships of Liquid and Solid
Metals.

IZV. VUZ CHERN. MET., 1973, No.4, pp.149-152.
BISI 11624

Kleiner, M.K. et al

Local Flows of Heat in an Enclosed Space with
a Variable Wall Temperature.

IZV. VUZ. CHERN. MET., 1973, No.4, pp.153-157.

BISI 11627

Gordon, M.M. et al

Problems of Unsteady Thermal Conductivity in
Massive Plates Solved with an Analog Computer
IZV. VUZ. CHERN MET., 1973, No.4, pp.158-162.
BISI 11625

Tsymbal, V.P. et al

Analysis of Error Structure in Mathematical
Models of an Open Hearth by Division into Com-
puters.

IZV. VUZ CHERN. MET., 1973, No. 4, pp.167-170.
BISI 11631

Safromov, V.I.

Ways of Increasing the Lives of the Screw Pairs
in the Screw-Down Devices of the Reversing
Rougher Mills.

IZV. VUZ. CHERN. MET., 1973, No.4, pp.171-176.
BISI 11616

Zaisev, Kh. P. et al

The Economic Effectiveness of Using of Oxidized Side Recovery Ferrous Quartzites.

IZV. VUZ. CHERN. MET., 1973, No.4, pp.179-183.

BISI 11626

Okhotskii, V.B. et al

Study of the Process of Carbon Burn-Off in
the O. H. Furnace by Means of Cinematography.
IZV. VUZ. CHERN. MET., 1973, No.5, pp.24-27.
BISI 11702

Vymetal, D. et al

Calculations of the Dynamic Characteristics
of the Upper Part of the Blast Furnaces.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.32-34.

BISI 11703

Notych, A.G. et al

Optimization of dust Extraction on the Slag
Pockets of Open-Hearth Furnaces.

IZV. VUZ CHERN. MET., 1973, No.5, pp.39-42.

SBISI 11704

Bolunov, V. et al

Compensation of the Effect of Wobble of Mill
Rolls in Regulating Sheet Thickness.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.61-62.

BISI 11705

Zheleznov, Yu.D. et al

Calculation of the Rolling Forces During Hot
Rolling.

IZV. VUZ CHERN. MET., 1973, No.5, pp.63-67.

FBI SI 11706

Kokovikhin, Yu. I.

Calculation of a Four-Roll Round-Square System. Report 1.

IZV. VUZ CHERN. MET., 1973, No.5, pp.68-71.

#BISI 11707

Potoshuev, M.N.

Spread Due to Reduction Inhomogeneity During
Rolling.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.81-83.
BISI 11708

Plichko, N.P. et al

Calculation of the Resistance to Deformation
of Steel in Hot-Rolling.
IZV. VUZ. CHERN. MET., 1973, No.5, pp.98-101.
BISI 11709

Chekmarev, A.P. et al

Investigation of the Interstand Deformation
During the Rolling in Light Section Mills.
IZV. VUZ. CHERN. MET., 1973, No.5, pp.102-105.
BISI 11710

Filippov, E.S.

Determination of the Heats of Phase Transformations and Mixing in Liquid Metals and Alloys from the Light Radiation.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.112-118.

BISI 11711

Kidin, I.N. et al

Diffusion Chromising of 08kp Steel During Heating in Paste.

Izv. Vuz Chern. Met., 1973, No.5, pp.133-136.

FBISI 11712

Kadirov, M.K.

Pulsation of a Gas Bubble in Liquid Steel Under Vacuum.

IZV. VUZ. CHERN. MET., 1973, No.5, pp.166-169.
BIST 11713

Glinko, M.A. et al

Evaluation of Average Significance of Operating
Parameters in OH Furnaces Finishing Periods.
IZV. VUZ CHERN. MET., 1973, No.5, pp.178-180.
BISI 11725

Shtets, K.A.

Assessment of the Degree of Rhythm in Open
Hearth Furnace Operation.

IZV. VUZ CHERN. MET., 1973, No.5, pp.186-188.
~~ABISI 11726~~

Geineman, A.V.

Thermophysical Characteristics of the Boiling
Open-Hearth Bath.

IZVEST. VUZ. CHERN. MET., 1973, No.6, pp.29-32
BISI 11786

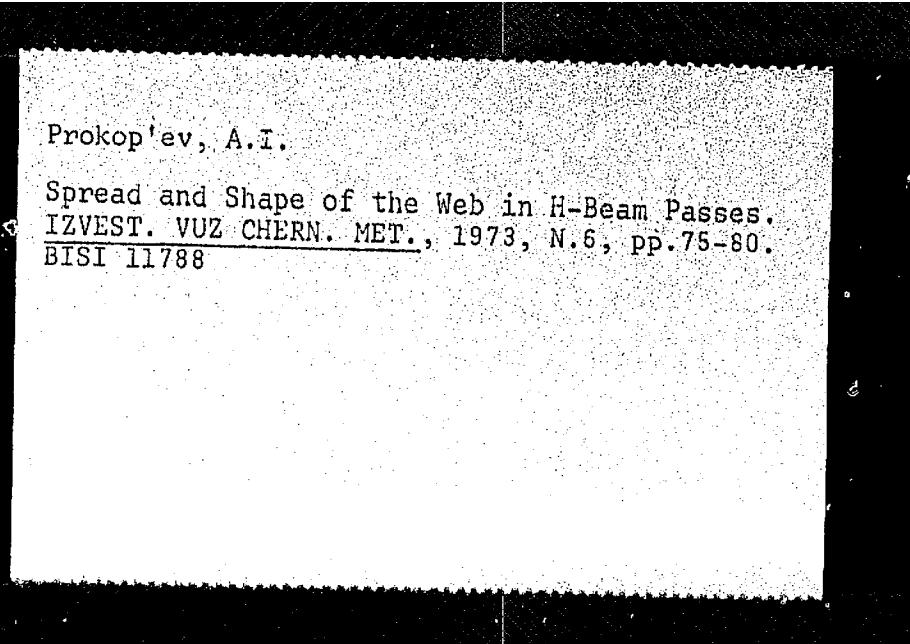
Demidov, K.N.

The Reaction Between Solid Ferrosilicon and
Molten Slag.

IZVEST. VUZ CHERN. MET., 1973, No.6, pp.37-40.
BISI 11785

Kazakov, A.A. et al

Optimum Control in Heating Large Dies.
IZV. VUZ. CHERN. MET., 1973, No. 6, pp. 67-71.
BISI 11787



Lozinskii, Yu. M.

The use of an exponential relationship for the selection and control of tempering procedures and the assessment of the heat resistance of steels.

IZV. VUZ CHERN. MET., 1973, No.6, pp.84-88.
BISI 11784

GUL', IU. F.
//IZV. VUZ. CHERN. MET.//
--/--/1973, V-----, NO006,
Mobility of Dislocations in Mild Steel in the Aged
State, and its cold Shortness in that State,
pp 99-92, EISI 117836

NEZEL'SKII, P. E.

//IZV. VUZ. CERN. MET.//

--/--/1973,V----,NO006,

The Influence of Titanium on the Properties of
Heat-Resisting Chromium-Manganese Steel,
pp 104-105, BISI 117826

Mashkov, A.K.

Special Features of the Breakdown of High-Strength Cast Iron During Thermal Fatigue.
IZV. VUZ. CHERN. MET. 1973, No.6, pp.114-117.
BISI 11781

Rybalko, L.G.

Use of the method of group inclusion of the
arguments for the development of a model of
the oxygen-converter process.
IZVEST. VUZ CHERN MET., 1973, No.6, pp.146-48

*BISI 11779

Levin, M.Z.

Torques from Geometrical Slip in Straightening
Rolled Sections.
IZVEST. VUZ CHERN. MET., 1973, No.6, pp.162-65.
BISI 11780

Sveshkov, Yu. V. et al.

Surface properties of Fe-Si melts.
IZV. VUZ. CHERN MET., 1973, No. 7, pp. 15-17.

~~BISI~~ 11879

SVESHKOV, YU. V. et al
//IZV. VUZ CHERN MET.//
--/-/1973, V----, N0007
Surface properties of Fe-Si melts
pp 15-17 BISI 11879#

Kostikov, V. I.

The strength of pyrographite in contact with
molten alkali metals.

IZV. VUZ. CHERN. MET., 1973, No. 7, pp. 18-20.

BISI 11880

Vegasa, E. F. and Lekoza, M. I.

Special Features of the Behaviour of the Melt
During the Sintering of the Sintering Mixes
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 25-28
~~BISI 11881~~

Kolganov, G. S., et al.

Mass Transfer in the Converter Baths.
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 36-40
BISI 11882

Kumanin, I. B., et al.

Ceramic Anti-Burn-On Coatings for Steel Castings
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 53-56

* BISI 11883

Pavlov, I.M. et al

Variation in the Contour and Distribution of
Tension Stock During Cold-Rolling.

IZV. VUZ. CHERN. MET., 1973, No.7, pp.75-78.
BISI 11884

Skorokhodev, N. E., et al.

Use of the Optimum Rating Method for the Setting
of a Cold Skelp rolling Mill

IZV. VUZ. CHERN. MET., 1973, No. 7, pp. 85-87

BISI 11885

Brovman, M. Ya., et al.

Deformation During the Drafting of Sheets in
Vertical Rolls

IZV. VUZ. CHERN. MET., 1973, No. 7, pp 92-96

~~BISI~~ 11886

Kokovikhine, Yu. I.

Calculating a Four High Round-Square Roll System. Report 2.

IZV. VUZ. CHERN. MET. 1973, No.7, pp.106-110.

BISI 11887

Kaibyshev, O. A.

The Superplasticity in Technical Nickel
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 119-121
BISI 11888

Filippov, E. S.

Theoretical Calculation of Hydrogen Solubility in
Solid and Liquid Metals
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 122-128
BISI 11889

Grinberg, B.G. et al

Electron Probe Micro-Analysis on the Diffusion
Layer in Titanium-Steel Clad Metal.
IZV. VUZ. CHERN. MET., 1973, No.7, pp.133-135.

BISI 11890

Zhadin, V. T.

Investigation of the Stress Relieving of 50KhGa
Spring Steel
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 144-145
BISI 11891

Kidin, I. N., et al.

Chromizing Iron-Based Cermets with Electric Heating
IZV. VUZ. CHERN. MET., 1973, No. 7, pp 151-154

BISI 11892

Kumanin, I. B. et al.

Effects of Certain Technological Factors on the
Crumbling of Moulding Sand.

~~IZV. VUZ. CHERN. MET.~~, 1973, No. 7, pp ~~166-169~~

* BISI 11893

162-165

Lyakhovich, L. S., et al.

Boriding High-Strength Cast Iron
IZV. VUZ. CHERN. MET., 1973, No. 7, pp. ~~150~~
BISI 11894 16-169

Zen'kovskii, A.G. et al

Research into Semi-Limited Jets Against Permeable Surfaces.

IZV. VUZ. CHERN. MET., 1973, No.7, pp.170-173.

BISI 11895

Roskik, E. A.

Heating Billets In Straight-Through Furnace

With Prolonged Mill Shutdowns

IZV. VUZ. CHERN. MET., 1973, No. 7, pp 176-178

BISI 11896

Guglya, V.G.

Pyroelectric Materials Used for Analysing small
Concentrations of Carbon Monoxide.
IZV. VUZ. CHERN. MET., 1973, No.7, pp.179-181.
BISI 11897

Petrushevskii, M.S.

Evaluating the Surface Energy of Binary Solution with Slight Deviations from the Law of Raoult.

IZV. VUZ CHERN. MET., 1973, No.8, pp.9-14.

BISI 11967

Korneeva, A.N. et al.

Structural Changes of Interference-Coloured
Oxide Films on Iron, Nickel and Copper During
their Reduction by Hydrogen and Carbon Mono-
xide.

IZV. VUZ CHERN. MET., 1973, No.8, pp.21-26.
BISI 11968

Korschikov
Korshikov, G.V.

Kinetics of the Pelletization Process for Fine-
ly-Ground KMA Concentrate on a Pelletizing Disc.
IZV. VUZ CHERN. MET., 1973, No.8, pp.30-32.
BISI 11969

Grankovskii, V.I. et al

Oxidizing Capacity of an Open Hearth Furnace
with Oxygen Injection of the Bath.

IZV. VUZ CHERN. MET., 1973, No.8, pp.35-40.

BISI 11970

Medzhibozhskii, M. Ya. et al

Approximate Process Modelling of the Assimilation
of Lime by the Slag Process Phase.
IZV. VUZ CHERN. MET., 1973, No.8, pp.41-45.
BISI 11971

Gasik, M.I. et al

The Microstructure of Commercial Silicomangane
se.

IZV. VUZ CHERN. MET., 1973, No.8, pp.63-66.
BISI 11972

Vigdorchik, S.Yu.

Calculation of the Final Deformation and Mathematical Simulation of the Kinetics in the Unsteady State Processes of the Treatment of Metals by Pressure.

IZV. VUZ CHERN. MET., 1973, No.8, pp.80-83.
BISI 11973

Moskalenko, Yu. N.

Alteration in Coercive Force in the First Stage
of the Tempering of Quenched Fe-Cr-N and Fe-Cr
-C System Alloys.

IZV. VUZ CHERN. MET., 1973, No.8, pp.109-111.
BISI 11974

Mints, R.I. et al.

Deformation Structure in a Metallic Fragment of
Lunar Substance.
IZV. VUZ CHERN. MET., 1973, NO.8, pp.112-114.
BISI 11975

Borisov, L.I. et al

Investigation of the Hot-Rolling Texture to
Transformer Steel.
IZV. VUZ CHERN. MET., 1973, No. 8, pp.125-128.
BISI 11976